

Assembly Numbers

MAXON Series 8000 Pneumatic Gas Valves

To determine the configured item number:

Select one choice from each of the following five categories

Configured Item Number				
Valve Size	Flow Capacity	Pressure Rating	Normal Position	Area Classification

Valve Size

075 - 3/4" (DN 20)
100 - 1" (DN 25)
125 - 1-1/4" (DN 32)
150 - 1-1/2" (DN 40)
200 - 2" (DN 50)
250 - 2-1/2" (DN 65)
300 - 3" (DN 80)
400 - 4" (DN 100)
600 - 6" (DN 150)
800 - 8" (DN 200)

Flow Capacity

S - Standard
C - CP Body Construction

Pressure Rating

80 - Pneumatic Standard Pressure
81 - Pneumatic High Pressure

Normal Position

1 - Normally-Closed Shut-Off Valve
2 - Normally-Open Vent Valve

Area Classification

1 - General Purpose
2 - Non-incendive, Class I, II and III Division 2
3 - Intrinsically Safe, Class I, II and III Division 1
(and ATEX Zone 1/21 when ordered with the ATEX IS solenoid) [1]
4 - Valve body only

[1]122°F maximum ambient temperature limit

Example:

To order a 3" CP body, high pressure rating, normally-closed shut-off valve for general purpose use, make the following selections:

Valve Size.....300
Flow Capacity C
Pressure Rating.....81
Normal Position1
Area Classification.....1

The configured item number for this valve is: 300 C 8111

Segment choices for Series 8000 Pneumatic Gas Valves are shown on the following pages.

Segment Choice Detail - NOTE: Some choices may not be available with all sizes and types of valves.

Segment Name	Segment Description	Segment Choices (DEFAULT is shaded)	Segment Choice Description
MODEL NUMBER 1	Determined by Configured Item Number selection (see page 10-30.3-AP-1)	Calculated	---
MODEL NUMBER 2		Calculated	---
SIZE		Calculated	---
FLOW CAPACITY		Calculated	---
PRESSURE RATING		Calculated	---
NORMAL POSITION		Calculated	---
AREA CLASSIFICATION		Calculated	---
BODY CONNECTION	Type of body connection	*	(*) Actuator only
		A	(A) ANSI (NPT) threaded
		B	(B) ANSI flanged (PN20)
		C	(C) ISO 7/1 threaded
		D	(D) DIN PN16 flanged
		E	(E) Socket welded nipple
		F	(F) Socket welded nipple w/ANSI Class 150 flanges
		G	(G) Socket welded nipple w/ANSI Class 300 flanges (PN50)
		H	(H) EN1092-1 PN16 flanges
		J	(J) ANSI Class 300 flange
BODY SEALS, BUMPER MATERIAL	Material specification for valve body seals and bumper	*	(*) Actuator only
		A	(A) Buna-N
		B	(B) Viton
		C	(C) Ethylene Propylene
		F	(F) Omniflex
BODY MATERIAL	Type of valve body material	*	(*) Actuator only
		1	(1) Cast iron
		2	(2) Carbon steel
		5	(5) Stainless steel
		6	(6) Low temp carbon steel
INTERNAL TRIM PACKAGE	Materials used for valve body internal components	*	(*) Actuator only
		1	(1) Trim package 1
		2	(2) Trim package 2
		3	(3) Trim package 3
		4	(4) Trim package 2, oxy clean
		5	(5) Trim package 3, oxy clean
		6	(6) Trim package 2, fire safe
		7	(7) Trim package 3, fire safe
PRIMARY VOLTAGE	Electrical voltage - actuator	*	(*) Valve body only
		A	(A) 120VAC 50 Hz
		B	(B) 120VAC 60 Hz
		D	(D) 240VAC 50 Hz
		E	(E) 240VAC 60 Hz
		G	(G) 24VDC
		H	(H) 24VDC IS
		J	(J) 24VDC IS-ATEX
Z	(Z) None (customer supplied)		

Segment Choice Detail - NOTE: Some choices may not be available with all sizes and types of valves.

Segment Name	Segment Description	Segment Choices (DEFAULT is shaded)	Segment Choice Description
SWITCHES	Switch options desired, if any	*	(*) Valve body only
		0	(0) None
		1	(1) VOS1/VCS1
		2	(2) VOS2/VCS2
		3	(3) VOS1/VCS1 - IP67
		4	(4) VOS2/VCS2 - IP67
ENCLOSURE RATING	Rating of actuator enclosure	*	(*) Valve body only
		A	(A) NEMA 4, IP65
		B	(B) NEMA 4X, IP65
INSTRUCTION LANGUAGE	Language for valve instructions	0	(0) English
		1	(1) French
		3	(3) German
		4	(4) Portuguese
		5	(5) Spanish
VISUAL INDICATION	Choice of color schemes for visual indicator	1	(1) Red closed / green open
		2	(2) Green closed / red open
		3	(3) Black closed / yellow open
FUEL	Type of fuel to be used	AIR	Air
		AMM	Ammonia
		BUT	Butane gas
		COKE	Coke oven gas
		DEL	Delco combusted
		DIG	Digester gas
		ENDO	Endothermic AGA 302
		EXO	Exothermic
		HYD	Hydrogen gas (chloride free)
		LAND	Landfill gas
		MFGD	Manufactured gas
		NAT	Natural gas
		NIT	Nitrogen gas
		OXYH	Oxygen (up to 200 psig, <100 fps)
		OXYL	Oxygen (up to 30 psig, <200 fps)
		OXYX	Oxygen (up to 255 psig, <150 fps)
		PROP	Propane gas
		REF	Refinery gas
		SOUR	Sour natural gas
TOWN	Town gas		
TOP ASSEMBLY POSITION	Actuator position	AW	Away
		L	Left
		R	Right
		TO	Toward
TAGGING	Type of tagging	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)

Segment Choice Detail - NOTE: Some choices may not be available with all sizes and types of valves.

Segment Name	Segment Description	Segment Choices (DEFAULT is shaded)	Segment Choice Description
MIN/MAX FLUID TEMPERATURE	Desired fluid temperature range	B	(B) -40F min, 212F max
		D	(D) 0F min, 212F max
		H	(H) -58F min, 212F max
MATERIAL CERT REQUIRED	Material certification paperwork	N	No
		Y	Yes
CASTING INSPECTION SPEC	Inspection specification for casting	0	None
		1	Casting per ASME B31.1
		2	Casting per ASME B31.3
		3	Casting per ASME B16.34
		4	MSS-SP55
CASTING INSPECTION (NDE) 1	Casting material certification	0	None
		1	Liquid Penetrant Inspection (PT)
		2	Magnetic Particle Inspection (MT)
		3	Positive Material Identification (PMI)
CASTING INSPECTION (NDE) 2	Casting material certification	0	None
		1	Liquid Penetrant Inspection (PT)
		2	Magnetic Particle Inspection (MT)
		3	Positive Material Identification (PMI)
WELD INSPECTION SPEC	Inspection specification for weld	0	None
		1	Weld per ASME B31.1
		2	Weld per ASME B31.3
WELD INSPECTION (NDE) 1	Weld material certification	0	None
		1	Liquid Penetrant Inspection (PT)
		2	Magnetic Particle Inspection (MT)
WELD INSPECTION (NDE) 2	Weld material certification	0	None
		1	Liquid Penetrant Inspection (PT)
		2	Magnetic Particle Inspection (MT)
PRE-BUILD MATERIAL FAT	Factory acceptance test	N	No
		X	Special
FINAL VERIFICATION FAT	Factory acceptance test	N	No
		X	Special
REDUNDANT SOLENOID	Choice of redundant solenoid options	0	None
		1	External redundant solenoid
		2	External redundant manual reset solenoid
SPEED CONTROL	Choice of speed control set	0	None
		1	Speed control valve, steel
		2	Speed control valve, stainless steel

Spare Parts

Complete Switch Assembly w/Terminal Blocks & Leads Mounted

Nominal Valve Size	Flow Capacity	Ref. Model Number	Assembly Numbers			
			General Purpose & Class I, Div. 1		IP67 - Class I, Div. 2	
			VOS1/VCS1	VOS2/VCS2	VOS1/VCS1	VOS2/VCS2
.75"	S	075 S	1053969	1053970	1053971	1053973
1"	S	100 S	1053969	1053970	1053971	1053973
1.25"	S	125 S	1053976	1053978	1053979	1053980
1.5"	S	150 S	1053981	1053982	1053983	1053985
2"	S	200 S	1053986	1053987	1053988	1053989
2.5"	S	250 S	1053986	1053987	1053988	1053989
2.5"	C	250 C	1053990	1053991	1053992	1053993
3"	S	300 S	1053986	1053987	1053988	1053989
3"	C	300 C	1053994	1053995	1053996	1053997
4"	C	400 C	1053994	1053995	1053996	1053997
6"	S	600 S	1078149	1078151	1078152	1078154
8"	S	800 S	1078149	1078151	1078152	1078154

Individual Mounted Switch Assembly Brackets w/Leads - VOS1/VCS1

Nominal Valve Size	Flow Capacity	Ref. Model Number	Assembly Numbers	
			General Purpose & Class I, Div. 1	IP 67 Class I, Div. 2
.75"	S	075 S	1063528	1063534
1"	S	100 S	1063528	1063534
1.25"	S	125 S	1063529	1063535
1.5"	S	150 S	1063530	1063536
2"	S	200 S	1063531	1063537
2.5"	S	250 S	1063531	1063537
2.5"	C	250 C	1063532	1063538
3"	S	300 S	1063531	1063537
3"	C	300 C	1063533	1063539
4"	C	400 C	1063533	1063539
6"	S	600 S	1078150	1078153
8"	S	800 S	1078150	1078153

Redundant solenoid valve

Voltage	General Purpose	Class I Division 2	Class I Division 1
24 VDC	50117686-001	50117689-001	N/A
24 VDC IS (FM & CSA)	N/A	N/A	50117692-001
24 VDC IS (ATEX)	N/A	N/A	50117692-001
120/60 AC	50117687-001	50117690-001	N/A
120/50 AC	50117687-001	50117690-001	N/A
240/60 AC	50117688-001	50117691-001	N/A
240/50 AC	50117688-001	50117691-001	N/A

Redundant solenoid valve with manual reset

Voltage	General Purpose	Class I Division 2	Class I Division 1
24 VDC	50116357-001	50116360-001	N/A
24 VDC IS (FM & CSA)	N/A	N/A	50116363-001
24 VDC IS (ATEX)	N/A	N/A	50116364-001
120/60 AC	50116358-001	50116361-001	N/A
120/50 AC	50116358-001	50116361-001	N/A
240/60 AC	50116359-001	50116362-001	N/A
240/50 AC	50116359-001	50116362-001	N/A

Bracket assembly for redundant solenoid with manual reset

Configured Item Number	Bracket assembly number
075 S 81XX	1131652
100 S 81XX	1131652
125 S 81XX	1131652
150 S 81XX	1131652
200 S 81XX	1131652
250 S 81XX	1131652
250 C 80XX	50113333-001
250 C 81XX	1131653
300 S 81XX	1131652
300 C 80XX	50113333-001
300 C 81XX	1131653
400 C 80XX	50113333-001
400 C 81XX	1131653
600 S 80XX	1131653
600 S 81XX	1131653
800 S 80XX	1131653
800 S 81XX	1131653

Complete Visual Indication Top Assembly**To order, enter configured item number: REPL 8000 VI TOP**

NOTE: Some choices may not be available with all sizes and types of valves.

Segment Name	Segment Description	Segment Choices (DEFAULT is shaded)	Segment Choice Description
ORIGINAL MODEL NUMBER 1	Original valve designation	Calculated	---
SIZE	Original valve size	038	(038) .375" -- DN10
		050	(050) .5" -- DN15
		075	(075) .75" -- DN20
		100	(100) 1" -- DN25
		125	(125) 1.25" -- DN32
		150	(150) 1.5" -- DN40
		200	(200) 2" -- DN50
		250	(250) 2.5" -- DN65
		300	(300) 3" -- DN80
		400	(400) 4" -- DN100
		600	(600) 6" -- DN150
		800	(800) 8" -- DN200
FLOW CAPACITY	Original flow capacity	C	(C) CP flow
		H	(H) High flow
		S	(S) Std flow
PRESSURE RATING	Original pressure rating	80	(80) Pneumatic std pressure
		81	(81) Pneumatic high pressure
NORMAL POSITION	Original valve type	1	(1) Shut-off valve
		2	(2) Vent valve
		3	(3) Liquid shut-off valve
AREA CLASSIFICATION	Original hazardous location designation	1	(1) General purpose
		2	(2) Class 1, Div. II
		3	(3) Class 1, Div I
INSTRUCTION LANGUAGE	Original language for valve instructions	0	(0) English
		1	(1) French
		3	(3) German
		4	(4) Portuguese
		5	(5) Spanish
VISUAL INDICATION	Original choice of color scheme for visual indicator	1	(1) RED closed/GRN open
		2	(2) GRN closed/ RED open
		3	(3) BLK closed/YL open

Solenoid Coil w/Quick Exhaust Assembly

Description	Assembly Number	Ref. Number
General Purpose and Class I, Div. 2, 120VAC 50/60 Hz	1056273	3000 - 196AA
General Purpose and Class I, Div. 2, 240VAC 50/60 Hz	1056274	3000 - 196AB
General Purpose and Class I, Div. 2, 24VDC	1056272	3000 - 196DB
General Purpose and Class I, Div. 2, 120VAC 50/60 Hz and -58F Min Fluid Temp	1124799	3000 - 196AA
General Purpose and Class I, Div. 2, 240VAC 50/60 Hz and -58F Min Fluid Temp	1124800	3000 - 196AB
General Purpose and Class I, Div. 2, 24VDC and 58F Min Fluid Temp	1124798	3000 - 196DB
General Purpose and Class I, Div. 1, 24VDC ATEX Certified and -58F Min Fluid Temp	1124801	---
Intrinsically Safe for Class I, Div. 1, 24VDC	1055029	---
Intrinsically Safe for Class I, Div. 1, 24VDC ATEX Certified	1073473	---

Speed control sets and intrinsic safety interfaces

Description	Assembly Number
Carbon steel speed control set	50118141-001
Stainless steel speed control set	50118144-001
Solenoid barrier for intrinsically safe	1067656
Switch barrier for intrinsically safe	1067655
Solenoid isolator for intrinsically safe	1067660
Switch isolator for intrinsically safe	1067659

Piping for external redundant solenoids with or without speed control sets

These assemblies pull all the parts required to plumb the solenoids and speed control (when present); for use with redundant solenoid valve, or redundant solenoid valve with manual reset

Description	Type of service (if applicable)	Speed control options	Assembly numbers
Redundant solenoid	General purpose	without speed control	50118153-001
		with steel speed control	50118139-001
		with stainless steel speed control	50118142-001
	Intrinsically safe	without speed control	50118154-001
		with steel speed control	50118140-001
		with stainless steel speed control	50118143-001
Redundant solenoid with manual reset	---	without speed control	50117312-001
		with steel speed control	50117313-001
		with stainless steel speed control	50117314-001